



County Borough of Lutterfield.


MEDICAL OFFICER OF HEALTH'S

R E P O R T

For the 4th Quarter of the year 1896.

ERNEST GEORGE ANNIS, M.R.C.S., L.R.C.P., D.P.H.

Medical Officer of Health.



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Return of Births and Deaths registered during the 13 weeks ended January 2nd, 1897.

Districts.	Census Population 1891.	Estimated Population at the middle of the year 1896.	BIRTHS REGISTERED DURING THE 13 WEEKS ENDED 2ND JAN., 1897.			DEATHS REGISTERED DURING THE 13 WEEKS ENDED 2ND JAN., 1897.			AGE MOR- TALITY.			SEVEN ZYMOTIC DISEASES.										Rate of Mortality per 1,000			
			Under 1 year.	Over 1 and under 5 years.	Persons aged 50 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Cancer.	All other Diseases.	All Causes.		7 Zymotics.					
											Typhoid.	Other.						During the corre- ponding period year previous. ended 2nd Jan., 1897.	During the corre- ponding period year previous. ended 2nd Jan., 1897.	During the 13 weeks ended 2nd Jan., 1897.	During the 13 weeks ended 2nd Jan., 1897.				
Huddersfield (Central)	25909	26860	155	104	21	16	47	..	1	..	..	9	..	14	33	9	6	32	14.28	15.54	1.80	1.49*	
Marsh ..	8330	8807	51	34	6	2	17	..	..	..	..	2	..	5	8	2	1	15	15.68	15.49	1.38	1.37
Fartown ..	9584	10057	46	49	14	4	21	..	..	..	1	3	..	6	13	3	1	22	14.55	19.55	1.21	1.60§
Deighton and Bradley	2273	2407	15	10	2	..	5	..	..	..	..	..	1	1	3	1	..	4	10.08	16.67	1.68	1.67
Dalton ..	8413	9006	57	29	14	..	8	..	..	..	1	4	..	1	10	1	..	12	10.37	12.92	0.90	2.23
Almondbury ..	14856	15495	97	60	14	13	16	..	..	..	..	6	..	3	15	5	4	25	14.88	15.54	0.78	2.07
Lockwood ..	12076	12851	83	57	14	9	21	..	..	1	..	2	..	7	23	..	4	20	14.94	17.80	1.59	0.94†	
Lindley ..	8575	9128	49	30	10	1	12	..	..	..	1	..	..	3	13	3	..	10	13.74	13.19	2.66	0.44
Longwood ..	5406	5852	21	26	3	5	12	..	..	..	1	..	..	3	10	..	1	10	6.91	17.83	..	1.37
Infirmary (Central)	..	..	..	22	..	4	6	..	..	..	..	..	..	1	3	..	1	17	..	..	..	..
Hospital (Fartown)	..	..	..	3	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
Workhouse (Lockw'd)	..	..	2	19	..	..	11	..	..	..	..	..	..	3	3	2	2	9	..	..	..	..
Borough ..	95422	100463	576	443	98	57	176	..	1	2	4	26	4	2	134	26	20	177	..	..	..	..
Rate per 1,000 of Esti- mated Population ..	..	..	23.01	17.70	..	..	..	..	0.04	0.08	0.16	1.04	0.16	0.08	5.35	1.04	0.80	7.07	14.73	17.70	1.49	1.56

* Central, with Infirmary 18.83.

§ Fartown, with Fever Hospital 20.75

† Lockwood, with Workhouse 23.74.

Deaths of Children under one year per 1000 births, 170.

" " Previous corresponding period 156.

Death Rate of 33 large English Towns, 19.08.

Death Rate (Zymotic) " 1.73.

Birth Rate " 31.08.

*To the Chairmen and Members of the Health and
Sanitary Committees.*

CHAIRMEN AND GENTLEMEN,

I have much pleasure in presenting the report for this the fourth quarter of the year 1896, and although the death-rate for this period does not compare favourably with that of the corresponding quarter of 1895, yet the death-rate for the whole year being 16·78 per 1,000 does compare satisfactorily with the rate for the whole year 1895, which was 17·14 per 1,000.

The period under review comprises the 13 week ending January 2nd, 1897, and during this period there were 576 births registered (315 males and 261 females), equivalent to a birth-rate of 23·01 per 1,000 of the population, comparing with a birth-rate of 31·08 per 1,000 for the 33 large English towns, and a birth-rate of 22·03 per 1,000 population in this Borough during the corresponding period last year.

Our birth-rate still continues to be among the lowest of any of the other large English towns.

The deaths registered numbered 443 (230 males and 213 females), equivalent to an annual death-rate of 17·70 per 1,000, as compared with 14·73 per 1,000 for the corresponding period last year; on a further analysis of these figures one finds that the increased death-rate has been general in all divisions of the Borough excepting in the Marsh and Lindley districts, in each of which portions the death-rate is slightly lower this year than it was during the last quarter of the previous year, whilst the increase is most phenomenal in the Longwood district, having changed from 6·91 per 1,000 last year to 17·83 per 1,000 during this period, there having been 3 deaths from consumption, 10 deaths from bronchitis, pneumonia, and pleurisy, 1 from cancer, and 10 from other diseases, compared with only 5 deaths from bronchitis, &c., 3 from cancer, and 2 from all other diseases during the fourth quarter of 1895.

Taking the whole Borough together the increased death-rate is due to an increased fatality from bronchitis, pneumonia, and pleurisy

there having been 72 deaths from these diseases in the last quarter of 1895, and 134 deaths from these diseases during this past quarter.

The number of deaths in the Infirmary also is noticeable 22 as against 12 for the corresponding period last year.

Twenty deaths are due to some form of malignant disease or other, and 47 are ascribed to phthisis.

The death-rate in the 33 large English towns during the period under notice was 19·08 per 1,000.

The death-rates in the various districts ranged in round figures from 13 in Dalton and Lindley to 19·5 per 1,000 in Fartown.

Amongst the 443 deaths registered there were 98 children under one year of age, equal to a mortality rate of 170 per 1,000 births, whilst the rate was 156 per 1,000 births in the previous corresponding period.

Our position relative to the 33 large English towns is shewn as follows :—

1896.

DEATHS PER MILLION IN THE FOURTH QUARTER.

	Smallpox.	Measles.	Scarlet Fever.	Diphtheria	Whooping Cough.	Fever.	Diarrhoea.	All Seven.
Thirty-three large towns, 1896....	..	340	252	408	287	229	219	1735
Huddersfield, 1896	..	40	80	160	1038	160	80	1558

The seven infectious diseases are credited with 39 deaths as follows :—Measles 1, scarle fever 2, diphtheria 4, whooping cough 26, typhoid fever 4, diarrhoea 2, representing a mortality of 1·56 per 1,000, against 1·49 last year. The zymotic death-rate of the 33 large English towns being 1·73 per 1,000.

The mortality amongst cases of whooping cough is increasing by rapid strides. During the second and third quarters of this year. there were 13 deaths, in each ascribed to whooping cough, but this quarter the number has exactly doubled, and is just twice as many as all the other deaths from the infectious diseases put together.

Respecting this disease it would appear to be the one over which the Health Authority have the least control, chiefly on account of its insidious latent period, and to the length of time the disease takes to run its course, rendering satisfactory isolation at home practically impossible. The school authorities also by urging school attendance as far as possible assist in disseminating this disease.

One hundred and forty-one cases of infectious disease have been heard of during the quarter, including 112 cases of scarlet fever, 8 diphtheria, and 17 enteric fever. Four of the cases of diphtheria heard of proved fatal, representing the very high case fatality of 50 per cent, whereas with adequate means, skilled nursing, isolation, &c., the case fatality should not come anywhere near to this figure.

Of the 112 cases of scarlet fever notified, 106 were admitted into the Hospital, or 94·6 per cent of the whole.

As several cases of scarlet fever were heard of, apparently connected in some way with a certain school, the school was visited and each of the scholars present were personally examined, revealing the fact that there were scholars in attendance suffering from scarlet fever in its disquamating, and therefore most infectious stage, these children were removed to the Hospital, all the absentees were also visited and examined, the school premises were arranged to be closed for half a day in order to have the same thoroughly disinfected, and since then, I am pleased to say, there has been no recurrence of cases in the neighbourhood.

The quarter commenced with 56 cases in the Hospital, and since then 112 cases have been admitted, 106 being scarlet fever, and 6 enteric fever. Three deaths have occurred, one being from scarlet fever, and two from typhoid fever. One hundred and five patients have been discharged, leaving 60 still under treatment, 57 being cases of scarlet fever, and 3 typhoid fever.

House to house inspections in various districts have been made, and 113 enquiries have been made in reference to cases of death from phthisis, and in children under one year of age.

On referring to the Meteorological table one finds that the average mean height of the thermometer was several degrees lower, the average mean moisture of saturation in the air was about 6 per cent greater, whilst the total amount of rainfall was 3in. less than the corresponding period of the previous year.

The Sanitary work of the Department includes 1,327 inspections of premises, amongst which are included 955 inspections of premises for nuisances, 10 where offensive trades are conducted, 73 cellar dwellings, 28 workshops, 26 slaughter houses, 56 canal boats, 115 cowsheds, and 14 bakehouses.

In order to ascertain whether or no, work ordered to be carried out was being performed satisfactorily, 286 visits have been made.

The number of nuisances reported at the Sanitary office was 34.

Fourteen visits and 9 purchases were made in accordance with the requirements of the Food and Drugs' Acts.

One sample of water was taken and analysed and found to be polluted.

61 Tub Closets have been registered, 18 smoke observation have been taken.

526 letters have been written, and 36 Legal notices have been issued for abatement of nuisances, 144 preliminary notices to owners were sent, and 266 owners were personally interviewed.

83 premises where cases of infectious diseases have occurred have been flushed.

32 other flushings have been paid for by owners, 550 other premises, yards or courts have also been flushed.

2,463 articles have been disinfected by the Lyons' Disinfecter.

118,167 receptacles have been emptied, and 296 applications for ashpits emptying and 28 for tubs were received at this office.

ERNEST G. ANNIS, M.R.C.S., L.R.C.P., D.P.H.

Health Office, Huddersfield.

The following Table shows the Meteorological Conditions for each week of the Quarter.

1896.	Oct 10	Oct 17	Oct 24	Oct 31	Nov 7	Nov 14	Nov 21	Nov 28	Dec 5	Dec 12	Dec 19	Dec 26	Jan 2	Average	Totals
Barometer, mean height, inches..	29.55	30.10	29.45	29.58	30.14	30.02	29.92	30.46	29.71	29.48	29.59	30.08	30.08	29.86	
Thermometer, mean for week ..	47.4	44.2	39.9	38.4	38.4	41.5	41.1	41.8	36.4	41.7	35.2	36.5	41.9	40.3	
Do. Mean highest day in air	52.1	47.7	44.7	43.4	43.8	45.5	45.1	43.2	39.7	44.8	37.5	40.3	46.1	44.1	
Do. Mean lowest night in air	42.7	40.6	35.2	33.5	33.0	37.4	37.1	40.4	33.1	38.5	32.9	32.7	37.6	36.5	
Do. Mean diurnal range	9.4	7.1	9.5	9.9	10.8	8.1	8.0	2.8	6.6	6.3	4.6	7.6	8.5	7.6	
Do. Mean 4ft. 6in. in ground	53°	52°	50°	49°	46°	46°	45°	45°	45°	44°	44°	43°	43°	47°	
Do. Mean 2ft. 6in. in ground	51°	49°	47°	45°	42°	41°	42°	42°	41°	41°	40°	39°	40°	43°	
Do. Absolute hig'st day in sun	90°	88°	77°	79°	65°	68°	68°	50°	60°	57°	52°	57°	60°	67°	
Do. Absolute hig'st day in air	58°	55°	48°	46°	46°	50°	48°	47°	47°	49°	40°	54°	52°	49°	
Do. Absolute low'st nig't in air	39°	33°	32°	31°	25°	32°	31°	35°	22°	34°	30°	27°	30°	31°	
Do. do. low'st nig't on grass	34°	32°	28°	27°	23°	27°	28°	33°	20°	29°	26°	24°	24°	27°	
Do. Greatest range.....	56	55	49	51	42	41	40	17	40	28	26	33	27	39	
Prevailing wind.....	SW	NW&NE	SW	SW E	W SW	W SW	W SW	E NE	SE	W SW	W NW	E SE	SW		
Velocity of wind, miles per hour	50	40	23	17	20	25	22	24	28	28	20	40	40	29	
Total rainfall, inches	2.37	0.28	0.41	0.75	0.76	0.29	0.08	0.06	1.28	0.63	0.18	0.50	0.73		8.32
Mean moisture of saturation %...	82.5	81.9	82.0	85.4	81.4	78.4	85.9	86.5	88.8	91.2	85.4	84.3	85.9	84.6	

The following Table shows the Deaths registered, and the Causes of Sickness reported for each week of the Quarter.

1896.	Oct 10	Oct 17	Oct 24	Oct 31	Nov 7	Nov 14	Nov 21	Nov 28	Dec 5	Dec 12	Dec 19	Dec 26	Jan 2	Av'rage	Totals
New Cases of Sickness, &c.	40	39	18	41	47	41	25	41	30	38	26	13	8	31	407
Cases notified as Infectious, &c..	7	13	18	5	9	12	8	15	15	17	7	6	9	11	141
Do. Scarlet Fever only	5	8	15	5	6	10	5	13	12	13	5	6	9	9	112
Do. Enteric Fever only	1	3	3	..	2	2	1	..	2	2	1	..	..	1	17
Admissions to Hospital	5	7	15	5	7	9	5	11	13	14	7	6	8	9	112
Deaths, all causes	26	23	27	29	35	51	30	37	38	39	32	35	41	34	443
Do. Seven Zymotic Diseases .	1	1	3	1	6	4	1	3	3	7	3	3	3	3	39
Do. Small-pox only .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Measles only .....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Do. Scarlet Fever only .....	..	..	..	..	1	..	..	..	..	1	..	..	..	..	2
Do. Diphtheria only .....	..	1	..	..	1	..	..	..	..	..	1	1	..	..	4
Do. Whooping Cough only ..	1	..	2	1	3	3	..	1	3	5	2	2	3	2	26
Do. Enteric Fever only .....	..	..	1	..	..	1	..	1	..	1	..	..	..	..	4
Do. Diarrhoea only .....	..	..	..	..	..	..	1	1	..	..	..	..	..	..	2
Death Rate—Huddersfield	13.50	11.94	14.02	15.06	18.18	26.49	15.58	19.22	19.74	20.25	16.62	18.18	21.29	17.70	
Do. 33 Large Towns ..	16.70	16.24	17.56	19.72	20.61	20.78	21.31	19.32	19.41	18.87	18.20	17.03	22.26	19.08	

New Cases of Sickness occurring during the 13 weeks ended 2nd January, 1897,
amongst Paupers and Home Patients of the Infirmary.

DISTRICTS OF BOROUGH.			Out-door Patients																		Home Patients								
	i	ii	12	13	14	15	16	17	Continued Fevers			Diarrhoea and Dysentery	Cholera	Rheumatism and Rheumatic Fever	Erysipelas	Pyæmia	Puerperal Fever	Influenza	Consumption	a	b	c	Violence, &c	d	e	f	TOTALS		
		Under 5 .. 5 upwards	13	1	1	28	25	2	...	31	...	6	...	32
	Portions of other Districts	Under 5 .. 5 upwards	..	...	...	...	...	3	...	...	...	1	12	...	...	...	...	...	...	9	41	19	13	4	...	53	...	48
	Central	Under 5 .. 5 upwards	..	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	2	7	3	...	...	...	8	...	2
	Marsh	Under 5 .. 5 upwards	..	...	...	...	...	1	...	...	...	1	3	...	...	1	...	...	...	2	18	12	8	2	...	17	...	5
	Fartown	Under 5 .. 5 upwards	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	65
	Deighton	Under 5 .. 5 upwards	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dalton	Under 5 .. 5 upwards	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	2	...	...	...	...	4
	Almondbury ..	Under 5 .. 5 upwards	..	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	1	8	3	...	2	...	5	...	13
	Lockwood ..	Under 5 .. 5 upwards	..	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	8	4	...	...	...	2	...	3
	Lindley	Under 5 .. 5 upwards	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Longwood ..	Under 5 .. 5 upwards	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Whole Borough	Under 5 .. 5 upwards	..	...	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	37	46	27	12	...	9	...	73
			6	...	...	3	4	...	...	...	...	...	...	...	17	100	46	27	12	...	98	...	337	

New Cases of Sickness reported or heard of as Infectious, chiefly under the 64th Clause of the Huddersfield Improvement Act, 1880, during the 13 weeks ended January 2nd, 1897.

DISTRICTS OF BOROUGH		Small-pox	Measles and Rotheln	Scarlet Fever.	Diphtheria	Cholera	Typhus	Continued Fever			Erysipelas	Chicken-pox	Puerperal Fever	Pneumonia	Tuberculosis	Other Diseases and Trifling Ailments	TOTALS
I	II	12	13	14	15	16	17	19	20	Other, doubtful (Febricula, &c)	24	25	26	28	a	e	32
Central	Under 5 .. 5 upwards	...	...	6	...	...	...	...	...	...	...	...	...	...	...	1	7
Marsh	Under 5 .. 5 upwards	...	...	11	...	...	...	3	...	...	...	...	...	...	...	...	14
Fartown	Under 5 .. 5 upwards	...	...	2	...	...	...	3	...	...	...	...	...	...	...	...	2
		...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	4
Fartown	Under 5 .. 5 upwards	...	...	6	1	...	...	2	...	...	...	...	...	...	...	...	7
		...	...	26	...	...	...	...	...	...	...	...	...	...	...	...	28
Deighton and Bradley ..	Under 5 .. 5 upwards	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
		...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	6
Dalton	Under 5 .. 5 upwards	...	...	2	1	...	...	2	...	...	...	...	...	...	...	...	3
		...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	9
Almondbury ..	Under 5 .. 5 upwards	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...	4
		...	...	7	1	...	...	4	...	...	...	...	1	...	...	...	13
Lockwood ..	Under 5 .. 5 upwards	...	...	4	...	...	...	2	...	...	...	...	...	...	...	...	4
		...	...	14	1	...	...	...	...	...	...	...	...	...	...	...	17
Lindley	Under 5 .. 5 upwards	...	...	6	1	...	...	...	...	...	1	...	...	...	...	...	7
		...	...	10	2	...	...	...	...	...	...	...	...	...	...	...	13
Longwood ..	Under 5 .. 5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	3
Crosland Moor Workhouse	Under 5 .. 5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Infirmary	Under 5 .. 5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whole Borough	Under 5 .. 5 upwards	...	...	29	3	...	...	17	...	...	1	...	...	...	...	1	34
		...	...	83	5	...	...	...	...	...	1	...	1	...	...	...	107

BIRKBY FEVER HOSPITAL.

Report of patients in the Hospital for 13 weeks ended Saturday, 2nd of January, 1897.

	1	2	3	4	5	6
	Smallpox.	Scarlet Fever.	Diphtheria.	Enteric, or Typhoid Fever.	Other, or doubtful cases.	Total.
No. in hospital on Saturday, 3rd Oct., 1896	..	51	..	5	..	56
No. since admitted	..	106	..	6	..	112
No. discharged	..	99	..	6	..	105
No. died	..	1	..	2	..	3
No. remaining in hospital	..	57	..	3	..	60

REMOVAL OF NUISANCES.

Drains requiring Re-construction (stone drains)	28	Nuisances from Poultry and Pigeons	1
" " connecting with main sewer (pipe drains)	35	" Animals	..
" " not Efficiently Trapped	18	Offensive Accumulations	..
Requiring Ventilation Shafts	54	" Ashpits and Privies	..
Defective Sink Drains	33	" Swill Tubs	..
" Yard Drains	75	Urine Guards Required for Tubs	..
" Cellar Drains	43	Closets Requiring Lime-washing	..
" Eaves and Fall Pipes	34	Workshops Requiring Lime-washing and Repairing	..
" Street Gullies	31	Ashpits and Closets Requiring Re-construction	14
" Roofing	..	" " Requiring Proper Doors & Covering	6
" Urinals	4	Old Privies altered to Tub or Water Closet system	11
" Baths	2	Insufficient Closet Accommodation	4
" Water Closets	3	Houses Overcrowded	3
" Pipes, &c., Requiring Disconnecting	6	Unfit for Habitation	2
To Provide Sinkstones to Houses	64	" Requiring Cleansing	29
Fall Pipes Requiring Disconnecting	..	" Requiring Ventilation	12
To Provide Eave and Fall Pipes	26	Damp	2
Nuisances from Want of Drains	19	" Requiring Water Supply	..
" Water in Cellar	11	Cowsheds Requiring Lime-washing	16
" Cellar Wells	11	" " Light and Ventilation	38
" Cess Pools	2	" " Draining	4
" Stagnant Water	3	" " Paving	2
" Defective Paving of Yard	11	" " Requiring Lime-washing or Cleansing	1
" Smoke	5	Bakehouses	..
		Total	678

SUMMARY OF WORK DONE.

Inspection of premises for Nuisances	955	Other Premises, Yards, or Courts Flushed	550
Premises where Offensive Trades are conducted	10	Preliminary Notices to owners	144
Dwelling-houses in house to house visitation	1	Owners seen personally	266
Cellar Dwellings	73	Number of Legal Notices issued for abatement or	
Workshops	28	abolition of Nuisances	36
Schools	2	Notices handed over to Borough Surveyor's Depart-	
Slaughter Houses	26	ment by request of Committee	4
Canal Boats	56	" written	8
Dairies and Milkshops	—	Nuisances reported at Sanitary Office	526
Cowsheds	115	" inspected	34
Bakehouses	14	Summonses taken out	34
Markets	Daily	Smoke Observations taken	—
Of premises where no Nuisance is found	47	Old Privies abolished	18
Total number of Inspections of Premises	1327	" altered to tub or water closet system	2
Re-visits to work in progress	298	Number of Tub Closets Registered	1
Visits to see if notices are being attended to	286	" applications received to empty Ashpits	61
Number of premises Visited where Zymotic Diseases		Tubs	296
have occurred	104	" Receptacles emptied	28
Inspected	104	Number of Visits under Food and Drug Acts	118167
Disinfected	109	Meat, seizures made or destroyed	14
Flushed	83	Fish	—
Visited searching for Fever	173	Food and Drugs—Samples purchased	—
Total number of Visits to Infected Houses	396	Water samples taken for analysis	9
Re-visits where cases are Isolated at Home	114	Polluted	1
Infectious Diseases reported	141	Gullies found choked	1
Cases removed to Hospital	112	Drains	42
Number of Articles Disinfected by Lyon's Disinfectant	2463	Visits to Houses where deaths have occurred in per-	40
Number of Houses Cleansed, Repaired, or Whitewashed	7	sons under one year	87
Number of Premises Flushed by request of owners		Phthisis	26
(paid for)	32		

